P-51

1865-66
(Agriculture)

File No 2.
Sls. 1-10

Opening Cinchona plantation
in Nagar division.

Indexed
D. Ranjit Singh

and 17 an acre of light jungle - on this point however Mr Porter's experience will guide him - the jungle should then be burnt and the ground pitted so as to be ready for the plants by the beginning of June - The pits should be 2 ft. x 2 ft. x 2 ft. deep and 7 feet from centre to centre both between the rows and between the plants - The above includes all necessary directions in regard to operations - Convicts are employed on all the plantations here in every operation except felling - they are entirely under Mr McI. who has magisterial powers, he clothes them, feeds them, and exacts a daily task from each of 200 of the above sized pits, paying them as a reward ½ an Anna for every 5 pits above the number and purchasing for them with the amount thus accumulating such articles of clothing or food (nothing deleterious) as they may desire - He has erected Jails for them which can hereafter be converted into Barrack houses -

As to the choice of a site -

1st Elevation - The best elevation for the 3 kinds of Cinchonas Mr McI. recommends us to buy, namely the C. succirubra, the C. condaminea, and the C. Calisaya - which are stated to yield, in the above order, the greatest quantity and the best quality of alkaloids, is from 4 to 6000 feet, or the higher the better in Nilgiris -

2?

O.S. Clks Hotel Coteacamund 20th March 1864

SL 1

My dear Mr Bowring.

I have had two days with Mr McIvor lately and obtained considerable insight into the subject of Cinchonas and their propagation and as I am uncertain as to Mr Porter's being at Santaverry I have thought it better to communicate direct to you the material points connected with our starting a plantation at Santaverry or in its neighbourhood - as no time should be lost in commencing operations, the present being the latest safe month for felling and clearing.

Mr McIvor advises that we should take up 500 acres, to be occupied gradually within the next 5 years and estimates the cost of the experiments (including the erection of propagating houses &c) at about Rs 25,000 - (this however appears to me above the mark) he recommends that 50 acres be cleared immediately and that as the convicts cannot be employed in felling they be set to make bricks for propagating houses to be erected before the next year, the plants for the 50 acres being taken down from here by me in May. - He states that the clearing should be effected before the sap begins to rise in the trees - that is before the April showers and that 40 men should clear an acre a day of heavy

and

2nd Aspect.— The best aspects are N. or N. W. and N. E. if sheltered from the highest prevailing winds. The plants bear drought better than excessive rain but should be sheltered from wind.

3rd Rain— The amount of rain should be from 60 to 100 inches or thereabouts.—

4th Soil.— ~~The soil should be good, but more~~ recent experience has shown that the C. will flourish on very indifferent soils, so that this point need not cause anxiety— The C. condaminea is now growing well in very poor gravelly soil on open grass land near the top of Doddabetta the gravel alternates with peat and the plants appear to thrive equally well on both.—

~~It has further been shown that~~ the plant thrives best in the open and it appears desirable that in selecting a site some portion of open grass land be included— Care being taken that it is sheltered from the wind— on which pits could easily be done, as being the only preparation required.—

Mr McIvor suggested that an experienced superintendent should be employed and said he could furnish a man at from Rs 75 to Rupees 120 (the latter a superior assistant) per month, but when I mentioned that the services of Mr Porter had been retained already, he said that an Assistant from this might

still

still be useful – I think such an arrangement not be desirable for the first year or so. . .

There are nearly 1000 acres under C. cultivation here now, the monthly expenditure being about Rupees 7000 – and on the plan followed, the expenses for 100 acres for the 1st year are calculated at Rupees 15,000 (including felling, pitting, planting, building – propagating houses and house for superintendent &c.) and for each succeeding year until the 4th when the estates should pay – Rupees 30 per acre.

I am sorry to have troubled you with all these details but I am anxious that no time should be lost and I am not sure where Mr. Porter is or whether he could act on what I wrote, neither do I know what money is available – The first thing however is to select a site and I think the above notes will suffice to guide in this matter; – the next is to set 50 men or so, to work at once to clear, bearing in mind that open ground may be included in the space occupied – The size and distance between the pits is given above and in all this Mr. Porter's experience will be ample. The Cinchona plants root well and have a good hold on the soil and I certainly was very much astonished after all I had heard of the

delicacy.

delicacy of the plant, to see it growing in graves on open grass land – the success of the experiment here is most undoubted and the effect of mossing (for which Mr McIvor has taken out a patent) is to increase the quantity of alkaloids to an almost incredible degree –

[redacted]

I see by Sir C. Wood's last despatch on the subject that a quinologist is to be added to the establishment here and a manufactory established for the production of the febrifuge alkaloids at cheap rates. –

Believe me
very sincerely Yours
"Signed" C. Elliot

(Copy)
Henry Ducie
22 Mancpr

Genl. 866 f. 335
From Augusta
Maj. Charles Elliott A.A.G.
Supt. of Indian
Affairs

of 20th Inst.
Rec'd 23rd do.

Intimates that he
has had an interview
with Mr. Secr. Poor Supt.
Genl. Creek Nation Cautioning
and conveys certain
instructions regarding
the proposed cultivation
at Tawawaroelse
=where

Sl 2

Colaccamund

April 21st /66

To

The Superintendent

Buggur Division.

Sir -

I am requested by the Commissariat to open a Cocoa plantation in the Buggur Division - I beg to state I have the following jungles which I consider well adapted for the purpose which I am willing to part with for Rs. 6500 & the jungle on the road leading to Mandy Hill for which I made an application some months ago -

The jungle above alluded to which I wish to dispose of is 200 acres

Sefkhis Hotel. Ootacamund
26th. April 1866. SL3

My dear Mr. Bowring.

I wd. willingly have refrained for the present from entering on business matters so soon, but as I hear you have returned to Office I believe you will be as desirous as I am to proceed with the measures for the introduction of Cinchona into Mysore so as to avoid any unnecessary loss of time.

I therefore beg to enclose a letter which was handed to me by Mr. Porter previous to

Madras Govt. for plants.

After consulting Mr. McIvor the following appears to include our present requirements.

1. For the purchase of Rs Mr. P's estate _____ 6500.

2. Working charges for Egrac, including Superintendence & a gardener from this on Rs 50. per month _____ 3600.

3. Cost of erecting a propagating house with the aid of convict labour _ 500.

4. Conveyance of 5. or 6000. plants on (8) carts (at 25/.) by mysore _____ 200.

Total Rs 10,800.

Say Rs 12000. as Budget provision — I have included a

making a total of Rs 5920 –
Should Government be prepared to take
this jungle at once, preparation
could be made for planting out such
number of plants as may be obtained
from Botanic Garden during the ensuing
Monsoon by which at least 1 year would
be gained, in proceeding with the
experiment –

I have the honor to be
Sir
Your most Obedt Servant
Ross Potter

Rate of Rs 200 a acre –

in extent of fine virgin forest, the soil consisting of vegetable mould on the top with an open subsoil; with a South + S.W. aspect + from 5000 to 5600 feet in height.

I have already cleared + burnt about 50 acres + have ready for felling a little more than half that extent. There is a bungalow on the Estate + the following are the details upon which I have based my offer which I trust will be considered reasonable - I have expended from March 1st 1865 up to date including purchase money, felling, burning, fencing, formation of water courses, nurseries &c. - - - - - Rs. 3500

Price of Bungalow . . 600

Superintendence 1200

Interest of money at 12 per cent 420

2

I gardener experienced in propa-
-gating to ensure success, & pro-
-posed to send him in charge
of the plants and Mycoura as
recommended by Mr. McI. on
acct. of the saving of distance &
avoidance of shifting carriage.

The direction of prisoners'
labour shd. be placed under Mr.
Porter & funds in the Th. treasury
for him to draw upon for tools &
such labour as the prisoners
cannot undertake.

I am very sincerely
yours
Elliot

1
6-19.

Jam. B. 1866. No. 386

Forin Secretary
Major-C. Elliot.
C. B.
Colaba Causeway.

Dated 26th
Rd. 28th April.

Forwards a letter from Lt. Ryes Porter offering for sale 4 lacs of Rs 500 a piece of land for the Raba Boodeen, 250 acres in extent well adapted for Chinchona cultivation and advises closing the bargain with the arrangements he has already made for the same.

Place 1000 Rs at the P's
Proposal for the above Purpose -
4/5/66.

Mr. Asst.
Return with Copy
of Major Elliot's
letter -
4/5/66.

The Comm. wishes a copy of Major Elliott's dem. off. Ellis 1/26 April 1838 and, if a clear Ldem 1/4/2 Inv. Ross Porter, with the instructions that the dem. of £6500 was to be tendered for the purchase of the 200 acres selected & surveyed, and the Surveyor-Gen. had communicated to him his Sup. Also that the Sup. was to place a sum of £10000 at his disposal, & draw upon as required, & that the expense of passing the patents thro' the Gt. Seal, can commence upon receipt of a Deed duly executed.

The Sup. to instruct

General No. 140
Revenue No. 76 } 1866/67.

Mysore Comr.s Office
Bangalore 7th May 1866.

514

To
The Secy. to Govt. of Mysore

Sir,

I am directed by the Comr. to forward for the information of Govt. the accompanying letter from Capn Elliot C.S. with its accompaniments, letter from Mr. Porter on the subject of the establishment of the Experimental Cinchona plantation by the Govt.

The Comr. approves of the suggestion that measures be taken for the introduction of Cinchonas and does not object to the purchase of the land required by Mr Porter should Govt be disposed favourably of it. He trusts that Govt will as soon as possible ascertain whether the dimensions, character of soil &c. coincide with

* Letter from Major C. Elliot to Mr. Bowring dated 20th March 1866.
** Do. from Major C. Elliot to Mr. Bowring dated 26th April 1866.
— Do. — from Mr. Ross Porter to the Superintt. of the Nuggur Do. d/ 21st April 1866.

D 7516

the description given,
authorises you to pur-
chase the property on be-
half of Govt. should you
be satisfied on these
points, as well as on
Mr. Parkes producing
a valid ~~valid~~ title
deed capable of transfer
to the Govt. of Singapore
by Endorsement on
the Patta -

Should you see no ob-
jection to the Purchase for Rs 6500
~~objection~~ the sum
of Rs 1000 may be placed
at Mr. Parkes disposal
to clear upon us signing,
to meet the expense of
opening up pits and
erecting the Fortifications.
Lose Hole Mill be
commenced at once -

Application has been
made to the Madras

X

Gov. for permission to
receive 5000 Cartridges
blank from Wm. Lane Jr.
& boat manned and
arrangements should
be made to convey
Cartridges with Mason Elliott
for their transport
to Augusta -

Yours -

[illegible]

Sind 6
15

Rec'd 1866. No. 140
6

The Offg. Superintt. of the
Nagur Division.

Dated 22nd Nov
Desp'd 24th } May

General No. 140
Revenue No. X 6

Forwards with cer-
tain instructions copies
of a Secret Official com-
munication from
Nat. Genl C. B. and Mr.
Ross Esqr regarding the
establishment of an ex-
perimental Cinchona
Plantation by the Govt
of

Ind – 6
— — 15

Genl

1866.

From The Secretary

To The Supt. Genl of the Coy's Affairs

Dated 18th May

Despatched 19th "

Received 22nd "

Pages 3

Enclosures No. nil

General No. 42 } 1866–67.

Genl No. 23 }

Replied to letter

No 140 of the 7th Inst.

on the subject

of the Introduction

of Circulation to

Accounts

Comm'd 22/5/66

The Asst Supt will be good
enough to arrange for the payment
of the purchase money

B 22/5/66

Supt of Natives asked for a Telegraph
Estt of 4 Islands to be made much
22/5/66
, Sanctn the purchase
B 23/5/66

General No. 42 / General No. 23 } 1866-7

Nuggur Division Superintt's Office
Camp Cudoor 18th May 1866

To The Secretary to the Commissioner
for the Government of the Territories
of H. H. the Maha Rajah of
Mysore

Sir,

In reply to your letter No. 140/B 76
of 7th Inst. covering copies of
correspondence on the subject of
the introduction of Cinchona
to Nuggur, and calling on me to
report on the dimensions, cha-
racter of soil, and aspect of
the estate offered to Govt. by Mr.
Ross Porter, I beg to state that
in my opinion, judging from
what I have read, and heard
from various sources that
Mr. Porter's property possesses
in a marked degree the condi-
tions considered necessary for
the successful cultivation of
Cinchona - Moreover, it possesses
the further recommendation

of easy accessability by a good
bandy road.

Mr. Porter's title is the puttah
granted to him by the Commissioner,
which is now in his possession,
and which he is prepared to
endorse over to the Mysore
Government as soon as he re-
-ceives the purchase money.
I beg therefore that you will be
pleased to obtain the Commr's
sanction to the completion of the
purchase.

The Deputy Superintendent
has been requested to place
Rs. 1000 at the disposal of Mr.
Ross Porter, as directed in your
letter under reply.

I have the honor to be
Sir
Your most obedient Servant

Offg Superintt.

Ind:
615 &c.

1866. No. 42

From Mr. Ross Porter &c.

To Captain A Hay
Secretary
Bangalore

Dated Seringapatam 8th May 1866.

Despatched

Received 12th June 1866.

Enclosures No. 5

General No. 615 / No. 186 — 6

In reply to his letter of the 5th Inst. I am informed that if Col. Clerk considers his land suitable for Cinchona it will be purchased by Govt. for Rs. 6500 — it was also offered by him —

Conclusion

Sawtaneery
May 8th 66

My dear Hay-

I am in receipt of your letter of the 5th Inst. informing me that if Col. Clerk considers any land suitable for Cinchona it will be purchased by Govt for Rs 6500.

2- In my letter to the Supt I offered the land to Govt for Rs 6500, & a certain jungle, that I had made an application for before & which the boundaries were defined by the taloop Official & sent in to the Dept to Supt

3- Respecting this jungle I see you have made no allusion to in your letter, & I write to you in case

My proposal might not have been understood in my letter to the Sup.t

Believe me

Yours Sincerely

Thos. Porter

A letter should go to
Mr Porter, in the
name of that address
with Sup[t], informing
him of the willingness
of Mr Blanchard his
Solicitor for the Inclosure
Caldecote Hardwicke,
& giving him Rs 100
monthly for the
management

D

Mr. Boyton

25/5/56

Mysore Commr's Office
29th May, 1866.

No. 537
File 15

Capt. Porter Layard
Secretary.

Sir,

With reference to your demi-official communication of the 8th Instant, I have the honor by desire of the Commissioner to inform you that he has authorized the Superintendent of the Mysore Government to lease your Estate of 200 Acres on the Baba-Boodan Hills for a Cinchona Plantation for the term of Rs 6500, which will in due course be placed before you by the Asst. of Superintendent.

The Superintendent has been directed regarding the Jungle allotment to in the 3rd Para of your letter

I have &c

RKW

Secretary

Copy to Supt. for information.

To D.C. Asst. Genl.

Rs 6500 / 30-8-0
B 28/5/66

Sect. No 7
15

From 1866. No 537
15 Ac 2

To Hon. Porter Esqre
Secretary

Dated Bangalore 29th May

Despatched

Received

Enclosures No.

General No 537 } 1866-67
F No 15 }

Requesting that the Govt
has authorized the purchase by
the Mysore Govt of the Estate
200 Acres on the Bala Hosdrug
Hills for a Cinchona Plantation
for the sum of Rs 6000 and also
requesting his assent to the arrange-
ment for paying Rs 100 per
month for superintendence

Copied
Secy
Ex 23 May-29-66

Ind
C 114

Financial

1866 No 218

From The Superintendent of the Shimoga Division

To The Secretary to the Government of Mysore

Dated 31st October 1866

Despatched 2nd November 1866

Received 5th Do.

Rep'd " Do.

Enclosures No. 2

General No. 4267 1866-67.

File No. 37

Forwards an Estimate with Plans for the construction of a propagating house at Sante-mergoor Sirsi

Order

8th Dec Govt proceedings

5/11/66

The funds granted at the disposal are available for the present. He has already

No 58.

Com. applied to the Govt Dept in answer to an application for seeds to some unforeseen contingencies that the Dept may be the year ending 31st March 1867 which is called for the Estimate called in the Supplemental Budget for 1866-67 amounting to $6k

J M 7/11

Govt. 10/11/66

Communicate to the Superintendent of Gardens the instruction of the Propagating House at Sante-mergoor subject to the restriction above referred to, but I observe that the Estimate

in the Cinchona Plantation at Sankaraville after the lamentable Calamity of the last year Which resulted in the Loss of convicts deputed to Sankaraville boring by hostility such a large production of their numbers -

I shall am therefore be prepared to give my sanction & sanction to the employment of convicts upon the above work unless the reasons for the temporary & desirability of the medical authorities

Ery

Bgre 13.11.68

circle of the Building has been completed & the comparatively low figure of Rs 625 & Sterling Officers pointed from amount of the Estimate Sum of Rs 500 on account of convict labour - It appears however to me to be very questionable how far the Engineer Govt would be justified in employing the convicts

Genl. No. 426 / Financial 37 } 1866-67

Nuggur Division Supdts' Office,
Shemogah, 31st October 1866

To,

The Secretary to the Commissioner
of Mysore

Sir,

With reference to previous correspondence on the subject of the introduction of Chinchona into this Division, I have the honor to submit for the favorable consideration of the Commissioner, an Estimate of cost, with plan* for the construction of a propagating House for Chinchona at Santavery, amounting to Rupees 625; exclusive of Convict labour, and to state that, although a more substantial structure is contemplated than that for which provision was originally made in the Budget, viz^t, Rs. 500; yet the Budget will admit of the additional expense now required, from the entry "

against

* to be returned.

against "unforeseen Contingencies," and moreover, a temporary Shed would require Constant repairs at Suntaviry - I beg therefore, that you will move the Govr. to accord his early Sanction to the Estimate in question, to allow of the work being Commenced at once -

2. The plan is taken from Dr. McIvor's instructions, and the erection of the propagating house would be under= =taken by the deputy Superintendent, Cuddor, and Mr. Porter, Conjointly -

3. I hope within the next few days to submit a report on the State of the Chinchona plantation and on the plants since their arrival up to date, and as I purpose visiting the plantation shortly, I will further report my observa= tions on the spot as to the general

appearance

appearance of the plants and the prospects of the experiment.

I have the honor to be,

Sir,

Your most obed.t Serv.t

Superintendent

Nuggur Division

Encl,
C. Ex. 87

Gl. N.° 4452

Finan.: 40

M. 6. C.

16th Nov. 1876.

519.

The Lords of Majesty's

Treasury.

My Lords,

In reply to your letter No. 426/37 of the 31st Ultimo, I am directed to communicate the Office Comments and views to the construction of a St. Sanctuary Bridge crossing Bonchurch Bay, subject to the restriction that the outlay for the year ending 31st March should not exceed the Grants entered in the Supplemental Estimate which was lately sanctioned. Eight Sovereigns and

~~such a state that he~~

It is ~~obvious~~ ~~that~~ It is recommended by Land Officer Curr.

that the instructed

cost of this building

has been brought

down to the exa-

ggeratedly low

figure of Rs. 625- by

striking off from

the gross amount

of the Estimate

the sum of Rs 500

on account of Convict

Labor. but it appears that

~~however to the Govt~~

~~Contractor~~ Contractor to

be very questionable

item for the Govt would be

justified in exa-

ggerating Convicts

on the Cuddapah

Mountains at Lands

& merry, after the

lamentable expe-

rience of the last

year, which resulted in the County Council deputed to that place having by mortality a large diminution of their number - the Commissioners will not therefore be prepared to give any countenance or sanction to the establishment of Convicts upon the above work, unless the measure has the concurrence and support of the Medical Authorities.

The Plan and Estimate which accompanied your letter are herewith returned -

I have &c

Ch
15-11-66

To Dir. and Genl

Lieut

Secy

Financial Office. 1852

43

Dept of Mayor

Dr. 16 November

Cert No 4452

Financl. 40

Encl

Dr reply to No 426/27

of the 31st Ult. commu-
-nicates sanction to the
construction of a propo-
-sed Police house for Cinche-
-na at Santaverry. —

No 58.

N

6-15

SL 10

From The Lieutenant Governor
To The Secretary

1867

Dated 11th May
Despatched 14 May
Received 21 May
Regd

Enclosures No. 2

General No 65 1867 16
Gov. No 21

With reference to your letter No 2354 of the 21st March last enclosing a report on Circular Letter No 4

I have the honor to acknowledge and thank you for the interesting account which I have perused with much pleasure of the Christmas Plantation at Kittitas and of the progress

Much has been made during the last year, State Govt I trust that the work which has been so satisfactorily commenced will be carried on with a continuance of those efforts which has been attended by the good management and attention which have been brought to bear upon it by the Local Authorities as well as by Mr. Rose Porter who has been immediate Manager of the Plantation

Sabrosa of all the suggestions which have been made by him & acting on his

about to visit Bombay
on Leave this

Those relative subjects
with advantage
I think be published
either in Supplement or
Quarterly in the
Bengal Gazette, I
also be embodied
in Dr Govan's
Adm. Reports.

A letter to be
addressed as above
by the Govt of Madras

29-5-67

effects of them. The
Govt will
be addressed on the
subject of further
and being entended to
our Indian Plantations
a request
& will be made
for further supplies
of Plants of each of
the different sheets
growing at Botanical
to be made over to
the Govt of Ceylon and Straits
if possible in charge
of the
Gardeners at Kandy
who is Native born

Govt No. 65 } of 1867/68
Genl " 27 }

Nuggur Division Supts Office,
Camp, Gulbutty-
11th May 1867.

To,

The Secretary to the Commissioner of
Mysore

Sir,

With reference to your letter No. 7135/204 of the 21st ult, I have the honor to submit an Extract, from the annual Report, of the Deputy Superintendent of Budoor, detailing the result of the operations during the past year, connected with the experimental Chinchona plantation, on the Baba Boodens-

2 Captain Lindsay's Report, appears to supply, almost all the information called for, by the Commissioner; but, I will add a few remarks, from my own Observations- The Valley selected for the experiment, receives the drainage from the North faces of Gulbutty, and terminates in a Cascade, by which the water descends at once to the low Country- From this latter point, the run of the valley is at first from

E

E.N.E to W.S.W, following the curve of the hill-
Below the spot, known as the old garden, the
Valley bifurcates; the two ravines which meet
them thus, nearly, encircling the plateau on
which the Bungalow is built- Several minor
Valleys formed by depression on the sides
of the hills, lead into the main branches,
and till the wood was cleared, which has
been done, from the lowest point of the prin-
cipal Valley, to the head of that, in front of the
Bungalow, there was a good deal of Jungle
and brushwood at the bottom, and for a short
distance up the sides-

3 As the Valleys wind round the hills,
there is a variety of Aspects, and the depths
affords shelter, from the prevailing winds-
The depths of the soil varies considerably, from
a few inches of vegetable mould resting on
rock, to 6. feet, composed partly of mould,
and partly of decomposed, and pulverized
rock- I hope to obtain an analysis of its
composition from Dr. Broughton, the
Geologist to the Madras Government-

4 The extent has been estimated by Mr. Porter, at about 200 acres including a detached hollow, filled with jungle, at a higher level on Kulhutty, known as Halsteds wood, but as the Estimate refers only to the extent of ground originally clothed with natural wood, the area actually available for planting is much larger, since it has been shown on the Heilgheries that Chinchona will grow in the open, and in very poor soil –

5 The jungle has been wholly, or partially cleared, and burnt, from near the waterfall to the head of the Valley in front of the Bungalow, and planting has been commenced in a minor Valley, leading into this; running N. N. W. & S. S. E., the majority of the Chinchonas being planted on the bank facing to the N. E. as being most sheltered from the monsoon bursts –

6 Captain Lindsay's Report gives details which it is unnecessary to recapitulate, and

L

spare baskets, &c., was much out of repair, but a temporary covering of thatch, has been put on, by prison labour, which will preserve it during the monsoon—

8 Good progress has been made in erecting the propagating house, though delay has unfortunately occurred, from the difficulty in procuring good sand, and from the sickness of the bricklayers— The Walls are in progress———; the wood work of the doors, window frames, and roof is ready, and a large proportion of the glass has arrived, though considerable breakage occurred on the road— The only possible objection which I see to the site is, that the building has been erected on ground not belonging to Government, but attached to the Sautaweery property, but I believe that no difficulties are likely to arise, from this Cause, and there were some advantages, in placing it, where Mr. Porter considered he could most conveniently superintend the

Operations

operations-

9 Enclosed is a Memo: of the expenditure during the past year, showing a total of ~~Rs~~ 9182-12-11; the greater proportion of which, has been absorbed, by the purchase money of the land-

10 With regard to future operations, it is to be hoped, that the propagating house will, as reported by Captain Lindsay, be ready shortly, as Cuttings can now be made from many of the plants, and Mr. Porter is of opinion, that it will be advantageous to obtain a further supply of plants from the Govt. Gardens at Ootacamund, which can be brought down in charge of the Gardener, who proceeds on leave to Ootacamund-

11 The Prisoners employed have till lately been in excellent health- A substantial Jail was built under Captain Lindsay's superintendence- Care was taken that sufficient food & of good quality was supplied them,

and

and the water used for drinking purposes, was secured against defilement. Since the weather broke, several cases of fever and diarrhea have appeared and they will return to Shenogoh, within a few days, but their presence here, has been of great advantage, and I intend hereafter, to submit a proposition for detailing a larger gang, at the Commencement of next cold weather.

12 I trust that the Offg: Commissioner will Consider the results of the past year, satisfactory, as there seems to be little doubt of the plant thriving, in situations similar to that in which, the present experiment is conducted, of which probably many Can be found on the heights of the Inland.

Mr. MacLeod's original suggestion was, that, 500 acres should be taken up by Government which may be done on the Baba Boodens, but in addition to this, it would be highly advisable, to open experimental plantations on a small scale, at selected stations, in the

the Inland Talooks of the Shemogah and
Cudoor Districts -

13 These might be superintended by the Deputy Superintendents, or Forest Departmt as most convenient, and conducted at little cost - The C. Succirubra flourishes at such comparatively low altitudes, that its dissemination is of great importance, and the cultivation might be introduced experimentally, as soon as the plantation on the Baba Boodens is in a position to furnish plants for distribution -

14 Should the Offg: Commissioner approve of the recommendation, that a further supply of plants be obtained from the Government Gardens at Ootacamund, I request that application may be made to the Madras Government, for them free of charge, as was liberally conceded last year -

I have the honor to be,
Sir,
Your most obedt Servt

Offg: Superintt

N.H.

Memo

Pay of the Superintendent, Mr. Porter from 1st May 1866 to April 1867 at 100 Rupees per mensem	1,200-- -- --
Gardner from 7th July 1866 upto the end of April 1867. at 40 Rs. per mensem	390-14-6
Working Charges including Bandy hire & the Carriage of Plants - - -	554-15-7
Propagating House - - - - - - - - -	536-14-10.
Price of Garden - - - - - - - - -	6,500- -- --
	9,182-12-11.

Supdt's Office, Engrs Dep.t
Camp
11th May 1867.

R.K.Kay

Offg. Superintt
Engrs Dep.t

Compd
C. Lud.d

Extract from the Annual Report of the Deputy Superintendant of the Sandoor Distt., No. 52 dated the 1st May 1867 for the Year 1866-67.

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Cinchona. Para 145. On the 25th June 1866, the Superintendent, Government Cinchona Plantations Tutacorin and, despatched the plants noted in the margin* to Santaverry. The Carts containing the plants arrived on the 24th July, and were planted out as soon as the weather was favorable. The ground selected for the experiment is on Kalhutty hill at an elevation of about 4,800 feet in a tolerably well sheltered valley completely cleared of all wood and having a deep black vegetable loam for soil. A good many casualties took place among the plants on the journey to Santaverry, but those which arrived though very small, had generally a very healthy appearance. The planting was completed by the 3rd September, and the number planted out is noted in the

* No. of plants
2,670 of C. Lac = C. Cirubra.
2322 of C. Condamenea.
44 of C. Calisaya.
75 Sundry plants.

margin; they are planted in pits, 2 feet square, at a distance of 6½ feet apart. In December, some grubs attacked the plants, and destroyed a few by cutting right through the stems, though in most cases where the plants were attacked, not much harm was done, as the grubs contented themselves with feeding on the leaves. These pests were got rid of by hand-picking. The most destructive grubs were found to be those of the common cockchafer and a Sphinx moth. The plants were in the first instance protected by cylinder shaped bamboo baskets projecting about a foot from the ground. The C. Laccifera plants progressed so rapidly that, in January many of them had outgrown the baskets, and it was found necessary to hedge each individual plant round, with thorns to the height of about 3 feet, to protect them from the bamboo, who had taken to pulling them up by the roots in their attempts to bite off the

No. 2276 of C. Laccifera
1257 of C. Condamenea
43 of C. Calisaya
75 of Tea plants

3570
1

hands of the plants - In February the plants began to droop a little it was therefore necessary to water as many as possible, each day, before the sun acquired much power and during the heat of the day the work of fencing the plants was continued. In March the same work of watering and fencing was carried on.

In the end of March the plants were counted, to discover the number which had died, or been otherwise destroyed and the result is noted in the margin.

2,003 of C. Succirubra
965 of C. Condamenea
27. C. Calisaya
59. Sea plants.

2995

It will thus be seen, that during the seven months they have been planted out, the casualties among them have been

273. C. Succirubra
286. C. Condamenea.
16. C. Calisaya.
16. Sea Plants.

The plants at present are in a most flourishing condition, and as far as it has gone, the experiment may be said to be a complete success - The Succirubras seem

seems to answer better than the other kinds, as it grows much more luxuriantly and is evidently the hardiest, as the loss has been much less in proportion than that among the others. The plants having a South-East aspect, seem to thrive best. The propagating house is now under construction, and I hope it will be finished by the middle of May. Many of the plants are sufficiently advanced to yield cuttings, so the propagating house can be turned to advantage as soon as it is completed. I have had several applications for young plants from both European and native Planters, but I do not suppose the requirements of the Government plantation will permit of any being distributed for, at least another year. The plantation has been ably superintended by Mr. Rose Porter who deserves every credit for its present success. Mr. Porter's well known energy

energy and thorough knowledge of his business as a Coffee Planter make him as efficient a person as can be found for superintending an experiment of this description, and Government is most fortunate in having secured his services.

× × ×

(True Extract)

Albany

Off'g Superintendt
Yuzuda Division

Compd
C. Ewald